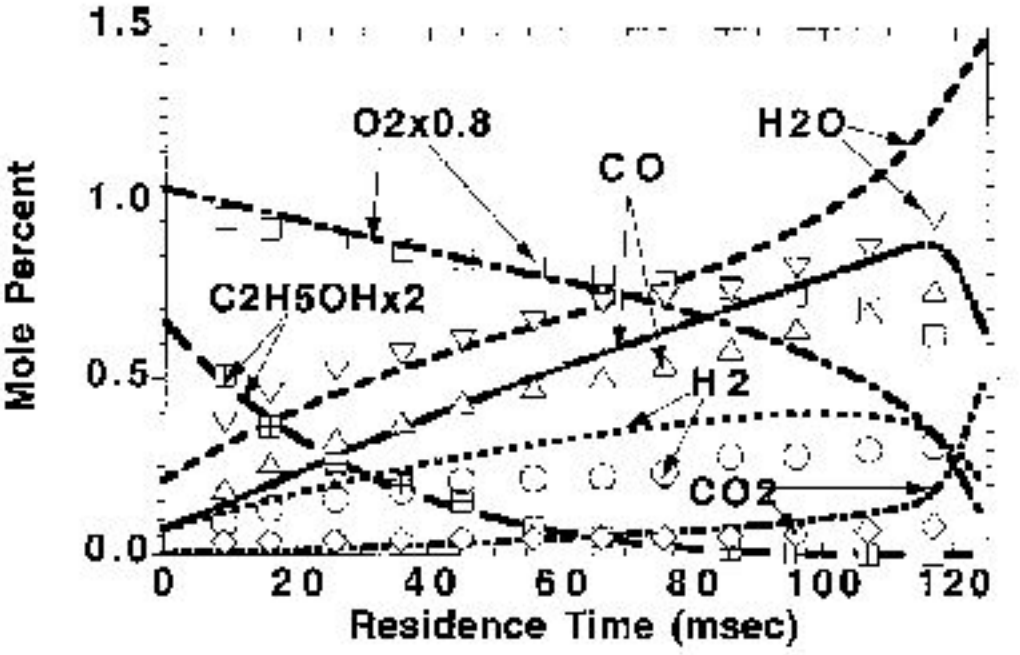

Figure 28 Comparison between experimental (symbols) flow reactor oxidation data for $\phi = 1.24$ as investigated by Norton and Dryer [6] and the numerical calculations (lines) using the detailed chemical kinetic model. The numerical results were time "shifted" by ca. −23 msec. Experimental conditions: 5.81% C_2H_5OH, 1.407% O_2, and 98.012% Nitrogen, Reynolds Number = 4900, P = 1atm, and T_{in} = 1100 K. Numerical simulations shown for C_2H_5OH, O_2, CO, CO_2, H_2, and H_2O.